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NOTICE OF ALLOWANCE AND FEE(S) DUE

20350 7590 08/20/2010
TOWNSEND AND TOWNSEND AND CREW, LLP
TWO EMBARCADERO CENTER

TOWNSEND AND TOWNSEND AND CREW, LLP TWO EMBARCADERO CENTER EIGHTH FLOOR SAN FRANCISCO, CA 94111-3834

EXAMINER					
LEE, CHUN KUAN					
ART UNIT	PAPER NUMBER				
2181 DATE MAILED: 08/20/201	10				

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/749,910 12/30/2003 Kulwinder Dhanoa		15114H-071400US	1395	
TITLE OF INVENTION: S	DRAM CONTROLLER			

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	11/22/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT, PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This f appropriate. All further c indicated unless corrected maintenance fee notification	form should be used for or spondence including the low or directed others.	or tran g the erwise	nsmitting the ISSU Patent, advance on in Block 1, by (a	TE FEE and PUBLIC rders and notification a) specifying a new of					nould be completed where correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDED	NCE ADDRESS (Note: Use Blo	ock 1 for	any change of address)		Note Fee(pape	: A certificate of s) Transmittal. Thi rs. Each additional its own certificate	mailings certil	g can only be used fo icate cannot be used fo , such as an assignment ding or transmission.	r domestic mailings of the or any other accompanying nt or formal drawing, must
TOWNSEND A TWO EMBARCA EIGHTH FLOOR		D Al	ND CREW, L	LP	I bor	Cer	tificate	of Mailing or Trans	nission deposited with the United t class mail in an envelope above, or being facsimile ate indicated below.
SAN FRANCISC	O, CA 94111-383	+							(Depositor's name)
					⊢				(Signature)
					ᆫ				(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT		TOR	ATTORNEY DOCKET NO.		RNEY DOCKET NO.	CONFIRMATION NO.
10/749,910	12/30/2003			Kulwinder Dhane	a		15	114H-071400US	1395
TITLE OF INVENTION:									
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nonprovisional	NO		\$1510	\$0		\$0		\$1510	11/22/2010
EXAMI	NER		ART UNIT	CLASS-SUBCLASS	S				
LEE, CHUN	KUAN		2181	710-052000					
PTO/SB/47; Rev 03-02 Number is required. 3. ASSIGNEE NAME AN	ndence address (or Cha 122) attached. atton (or "Fee Address" or more recent) attach ID RESIDENCE DATA ss an assignee is identi in 37 CFR 3.11. Comp	nge of 'Indica ed. Usa	Correspondence ation form e of a Customer	(1) the names of or agents OR, alte (2) the name of a registered attorney 2 registered patent listed, no name wi	up to rnativ single y or a t attor ill be or typ the pa	e firm (having as a gent) and the name neys or agents. If opinted, e) atent. If an assignassignment.	memb es of u no nan	er a 2	ocument has been filed for
Please check the appropria	te assignee category or	catego	ories (will not be pr	inted on the patent):	۵	Individual 🚨 Co	orporati	on or other private gro	up entity Government
4a. The following fee(s) are submitted: Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies			ed)	A. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby suthorized to charge the required fee(s), any deficiency, or credit any overpayment, to Depoid Account Number (eachose an extra copy of this form).					
5. Change in Entity Statu a. Applicant claims	SMALL ENTITY statu	s. See	37 CFR 1.27.					FITY status. Sec 37 CF	
NOTE: The Issue Fee and interest as shown by the re	Publication Fee (if requeered of the United Sta	iired) v tes Pat	will not be accepted ent and Trademark	d from anyone other t Office.	han ti	ne applicant; a regi	stered	attorney or agent; or th	e assignee or other party in
Authorized Signature _						Date			
Typed or printed name						Registration N			
This collection of informal an application. Confidenti- submitting the completed this form and/or suggestion Box 1450, Alexandria, Vir Alexandria, Virginia 2231.	tion is required by 37 C ality is governed by 35 application form to the ns for reducing this bur rginia 22313-1450. DC 3-1450.	FR 1.3 U.S.C. USPT den, sl NOT	11. The informatic 122 and 37 CFR O. Time will vary hould be sent to th SEND FEES OR	on is required to obtain 1.14. This collection depending upon the e Chief Information C COMPLETED FORM	n or re is esti indiv Office IS TO	etain a benefit by the imated to take 12 r idual case. Any co r, U.S. Patent and THIS ADDRESS	he pub minuter mment Trader i. SEN	tic which is to file (and to complete, includin s on the amount of tir nark Office, U.S. Deps D TO: Commissioner t	by the USPTO to process) g gathering, preparing, and ne you require to complete utment of Commerce, P.O. for Patents, P.O. Box 1450,

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	ADERO CENTER		ART UNIT	PAPER NUMBER			
EIGHTH FLOO SAN FRANCISO	R CO, CA 94111-3834		2181 DATE MAILED: 08/20/201	0			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 201 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 201 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)				
10/749,910	DHANOA, KULWINDER				
Examiner	Art Unit	Π			
Chun-Kuan I ee	2181				

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative

of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 04/26/2010. The allowed claim(s) is/are 1, 5-7, 11-13, 18 and 20-27 (renumbered as claims 1-16). 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) \square All b) ☐ Some* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3.
☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6.

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date 20100810. Information Disclosure Statements (PTO/SB/08). 7. X Examiner's Amendment/Comment Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material 9. ☐ Other /Alford W. Kindred/ Supervisory Patent Examiner, Art Unit 2181